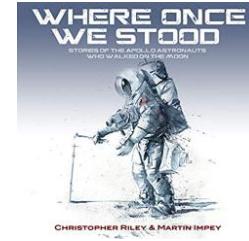
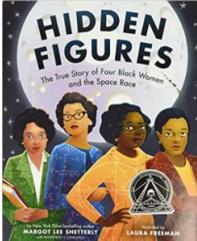


# YEAR 5 SCIENCE – EARTH AND SPACE (Spring 1)

Tier 3 Vocabulary	Knowledge Facts	Book curriculum
<b>Solar system:</b> Comprising of the 8 planets, moons, asteroids & comets that orbit our Sun	Terrestrial planets – Mercury, Venus, Earth, Mars; Gas giants – Jupiter, Saturn, Uranus, Neptune. The order of the planets: MVEMJSUN. Smallest: Mercury; Largest: Jupiter.	 
<b>Orbit:</b> An elliptical path of an object around a star (Sun).	The planets are spherical and orbit the Sun (a star). The heliocentric model proposed by Copernicus in the 16 <sup>th</sup> Century.	
<b>Geocentric:</b> A belief that the Earth was the centre of our solar system.	The Earth rotates on its axis from West to East (anti-clockwise). The Sun 'rises' in the East & sets in the West. The Earth takes 24 hours to complete one rotation – giving us day & night.	
<b>Heliocentric:</b> The Sun is the centre of our solar system, around which all 8 planets orbit.	Due to the Earth's rotation, there are different time zones around the world.	Other recommended reads.
<b>Axis:</b> An imaginary North - South line through the Earth around which it rotates.	The Moon orbits the Earth. 29.5 days for a full lunar cycle of 8 phases: new moon waxes to full moon & wanes to new moon. The Moon does not change shape. It reflects the Sun's light.	  
<b>Rotation:</b> The spinning movement of an object around a central point.		
<b>Longitude:</b> Imaginary North – South vertical lines on the Earth, measuring distance East or West.	<p><b>National Curriculum End Points</b></p> <p>I can describe the movement of the Earth and other planets, relative to the Sun in the solar system.</p> <p>I can describe the movement of the Moon relative to the Earth.</p> <p>I can describe the Sun, Earth &amp; Moon as approximately spherical bodies.</p> <p>I can use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky.</p>	 
<b>Time zones:</b> A region of the Earth with a specific time, earlier or later than neighbouring zones.		
<b>Lunar:</b> To do with the moon.		
<b>Phase:</b> A distinct stage in a process of change.		
<b>Waxing:</b> Increasing in size.		
<b>Waning:</b> Decreasing in size.		
		<p>Not to scale.</p>